

CLAIMS

1. A method of wireless communications, comprising:
establishing a packet data session from a wireless communications device to support a network connection to a packet-switched network; and
receiving a notification at the wireless communications device of an incoming call from a circuit-switched network while the network connection is active.
2. The method of claim 1 further comprising receiving the notification at the wireless communications device over the packet data session.
3. The method of claim 2 further comprising registering from the wireless communications device over the packet data session with a voice message server to receive the notification.
4. The method of claim 3 wherein the registration comprises communicating from the wireless communications device with the voice message server using a session key.
5. The method of claim 3 wherein the registration comprises communication from the wireless communications device with the voice message server over a transport control protocol session.
6. The method of claim 1 further comprising terminating the packet data session in response to the notification of the incoming call, and accepting the incoming call from the circuit-switched network.
7. The method of claim 7 wherein the acceptance of the incoming call comprises establishing a connection with a mobile switching center to support the incoming call.

8. The method of claim 1 further comprising receiving the notification at the wireless communications device from a voice message server.

9. The method of claim 8 further comprising sending a reply from the wireless communications device to the voice message server in response to the notification.

10. The method of claim 9 wherein the reply is sent over the packet data session.

11. The method of claim 8 further comprising terminating the packet data session in response to the notification, and establishing a connection with a mobile switching center to support the incoming call.

12. A wireless communications device, comprising:
a processor configured to establish a packet data session to support a network connection to a packet-switched network, and receive a notification of an incoming call from a circuit-switched network while the network connection is active.

13. The wireless communications device of claim 12 wherein the processor is further configured to receive the notification over the packet data session.

14. The wireless communications device of claim 13 wherein the processor is further configured to register over the packet data session with a voice message server to receive the notification.

15. The wireless communications device of claim 14 wherein the processor is further configured to register with the voice message server using a session key.

16. The wireless communications device of claim 14 wherein the processor is further configured to register with the voice message server over a transport control protocol session.

17. The wireless communications device of claim 12 wherein the processor is further configured to terminate the packet data session in response to the notification, and accept the incoming call from the circuit-switched network.

18. The wireless communications device of claim 17 wherein the processor is further configured to accept the incoming call by establishing a connection with a mobile switching center to support the incoming call.

19. The wireless communications device of claim 12 wherein the processor is further configured to receive the notification from a voice message server.

20. The wireless communications device of claim 19 wherein the processor is further configured to send a reply to the voice message server in response to the notification.

21. The wireless communications device of claim 20 wherein the processor is further configured to send the reply over the packet data session.

22. The wireless communications device of claim 22 wherein the processor is further configured to terminate the packet data session in response to the notification, and establish a connection with a mobile switching center to support the incoming call.

23. A wireless communications device, comprising:
means for establishing a packet data session to support a network connection to a packet-switched network; and
means for receiving a notification of an incoming call from a circuit-switched network while the network connection is active.

24. A method of wireless communications, comprising:
establishing a packet data session between a wireless communications device and a packet data serving node to support a network connection with a packet-switched network; and
routing a notification of an incoming circuit-switched call from a voice message server to the wireless communications device while the network connection is active.

25. The method of claim 24 wherein the notification is sent over the packet data session between the wireless communications device and the packet data serving node.

26. The method of claim 25 further comprising registering the wireless communications device with the voice message server to receive the notification, the registration of the wireless communications device occurring over the packet data session between the wireless communications device and the packet data serving node.

27. The method of claim 24 further comprising terminating the packet data session between the wireless communications device and the packet data serving node in response to the notification, and establishing a connection between the wireless communications device and a mobile switching center to support the incoming call.

28. The method of claim 24 further comprising receiving the incoming call at a mobile switching center while the network connection is active, routing a signal from the mobile switching center to the voice message server indicating that the wireless communications device is unavailable, the receipt of the signal at the voice message server prompting the routing of the notification from the voice message server to the wireless communications device, the method further comprising routing a reply from the wireless communications device to the voice message server, and signaling the mobile switching center from the voice message server to deliver the incoming call to the wireless communications device in response to the reply.

29. A method of communications, comprising:

operating a wireless communications device in a serving network, the wireless communications device being assigned to a home network different from the serving network;

establishing a packet data session between the wireless communications device and a packet data serving node in the serving network to support a network connection with a packet-switched network; and

routing a notification of an incoming circuit-switched call from a voice message server in the home network to the wireless communications device while the network connection is active.

30. The method of claim 29 wherein the notification is routed over a packet data session between the wireless communications device and a packet data serving node in the serving network.

31. The method of claim 30 further comprising registering the wireless communications device with the voice message server in the home network to receive the notification, the registration of the wireless device occurring over the packet data session between the wireless communications device and the packet data serving node in the serving network.

32. The method of claim 29 further comprising terminating the packet data session between the wireless communications device and the packet data serving node in the serving network in response to the notification, and establishing a connection between the wireless communications device and a mobile switching center in the serving network to support the incoming call.

33. The method of claim 29 further comprising receiving the incoming call at a mobile switching center in the home network while the network connection is active, routing a signal from the mobile switching center in the home network to the voice message server in the home network indicating that the wireless communications device is unavailable, the receipt of the signal at the voice message server in the home

- network prompting the routing of the notification of the incoming call from the voice message server in the home network to the wireless communications device, the method further comprising routing a reply from the wireless communications device to the voice message server in the home network, and signaling the mobile switching center in the serving network from the voice message server in the serving network to deliver the incoming call to the wireless communications device in response to the reply.